

XP-002083114

- 1/1 - (C) WPI / DERWENT
- AN - 85-293614 c25!
- AP - JP840058450 840328
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- TI - Sustained release granular material - comprising
granule nucleus coated with wax and acrylic resin
- IW - SUSTAINED RELEASE GRANULE MATERIAL COMPRISE GRANULE
NUCLEUS COATING WAX POLYACRYLIC RESIN
- PA - (NITN) NIHON TOKUSHU NOYAKU SEIZO KK
- (NIOC) NIPPON OIL KK
- PN - JP60202801 A 851014 DW8547 006pp
- ORD - 1985-10-14
- IC - A01N25/12
- FS - CPI
- DC - A97-G03
- AB - J60202801 Granular substance with sustained release
comprises a granule as nucleus coated with wax and
acrylic resin.
 - The nucleus comprises agriculturally active component
solid diluent, and opt. additives. Synergistic release
inhibiting effect can be obtd. by combined use of wax
and acrylic resin. Agriculturally active components are
e.g. MTMC, BPMC, simetryne, molinate, MCPA,
Kasugamycin, PCP, bentazone, etc.
 - The nucleus can be obtd. by extrusion granulation using
as solid diluent clay, talc, bentonite, etc.: by
impregnating granules of diatomaceous earth, zeolite
and like oil-absorbing mineral with active component;
or by spraying active component onto non-oil-absorptive
granular mineral. Solid diluents are e.g. wood flour,
slaked lime, calcium carbonate, gypsum, diatomaceous
earth, zeolite, silicon oxide, alumina, bentonite,
clay, vermiculite, etc. Binder used is e.g. PVA, CMC,
etc. Wetting agent used as surfactant Acrylic resins
are homopolymer and copolymer of acrylic acid alkyl
ester. Other monomers used for copolymer are vinyl chloride,
vinyl acetate, vinylalcohol,
vinylidene chloride, butadiene, styrene, acrylonitrile,
etc. Wax is pref. hydrocarbon wax of m.pt. 50-100 deg.
C, e.g. paraffin wax, microcrystalline wax, polyolefin
wax. Acrylic resin and wax are pref. used in form of
emulsion. Ratio of wax acrylic resin is pref. 6 or
less (by solid et.).
 - ADVANTAGE - Release of active component in the granule
can be controlled.